

NEW *Indoor Daylight* FOR INDUST



Lighting Flow

MILLER

PRESENTS

Fluorescent
LIGHTING FIXTURES

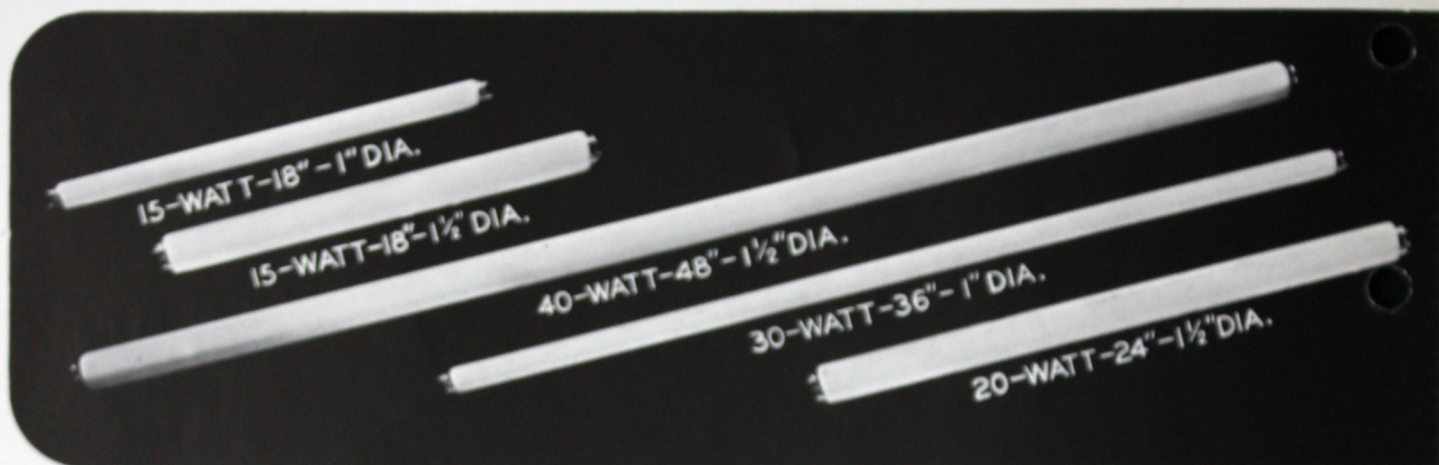
IVANHOE

THE MILLER COMPANY ♦ MERIDEN, CONNECTICUT

Pioneers in Good Lighting Since 1844

The FINEST DAYLIGHT

THE WORLD HAS



The Fluorescent Daylight Mazda lamp is the most remarkable forward step in the important field of Industrial Lighting. "Step" is a very mild word. "Leap" would be more adequately descriptive of this great

advance in the science of artificial illumination. For there is no comparison between this new light course and any other so-called DAYLIGHT lamp on the market.

(NOTE: Fluorescent Mazda lamps are also available in red, gold, pink, blue, green and white.)

6 IMPORTANT FEATURES

1. Daylight Color.
2. 50% Cooler Light.
3. Greater Efficiency.
4. Low Surface Brightness.
5. No Glare.
6. Longer Life.

Fluorescent Mazda lamps are of the electric discharge type, employing Mercury Vapor as the medium for sustaining the arc. A large amount of fairly short wave ultra-violet invisible radiation is produced which, in turn, is transformed into longer wave length visible radiation by means of fluorescent and phosphorescent

powders applied to the inner surface of the glass tube. The remarkable characteristics of Fluorescent Mazda lamps and their exceptionally high efficiency make them especially desirable for a host of applications in the industrial field.

DIMENSIONS AND ELECTRICAL DATA

	18-inch T-8	18-inch T-12	24-inch T-12	36-inch T-8	48-inch T-12
Nominal Lamp Watts*	15	15	20	30	40
Nominal Lamp Amperes	0.30	0.33	0.35	0.33	0.42
Nominal Lamp Volts	56	48	62	103	108
Circuit Voltages	110-125	110-125	110-125	{ 199-216 } { 220-250 } { 110-125 }	{ 199-216 } { 220-250 } { 110-125 }
Diameter	1"	1 1/2"	1 1/2"	1"	1 1/2"
Rated Laboratory Life, Hrs.	2000	2000	2000	2000	2000

LUMEN OUTPUTS AND BRIGHTNESSES

	Lumens	Foot-Lamberts**	Lumens	Foot-Lamberts**	Lumens	Foot-Lamberts**	Lumens	Foot-Lamberts**	Lumens	Foot-Lamberts**
Daylight	450	1800	450	1200	660	1290	1110	2160	1600	1400
White	555	2220	555	1480	820	1600	1380	2700	2000	1810
Blue	315	1260	315	830	460	900	780	1520	.....	.....
Green	900	2600	900	2400	1300	2540	2250	4350	.....	.....
Pink	300	1200	300	800	440	860	750	1460	.....	.....
Gold	375	1500	375	1000	540	1050	930	1810	.....	.....
Red	45	180	45	120	60	120	120	230	.....	.....

*Add auxiliary watts for total.

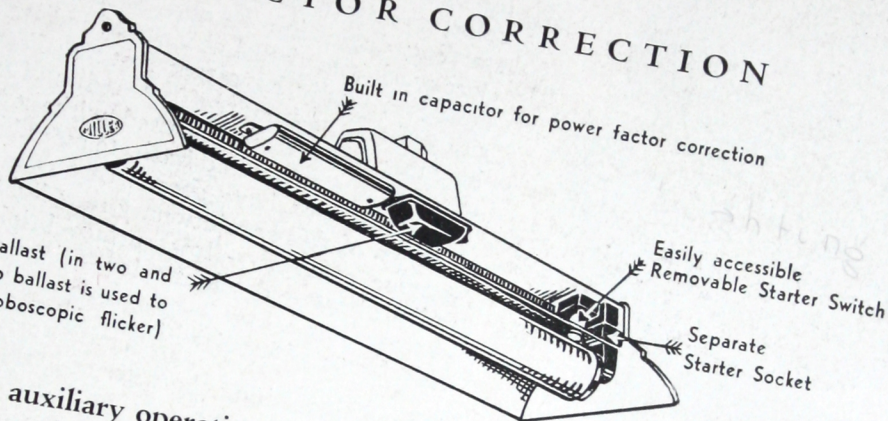
**Maximum values at center of lamp perpendicular to the lamp. 1 candle/sq. in. = 452 foot-lamberts.

VER . . . INDOORS S E E N

Fluorescent Mazda lamps are designed primarily for operation on AC circuits. Special auxiliary operating equipment is required for each tube.

CIRCUIT VOLTAGE

POWER FACTOR CORRECTION



Fluorescent lamp with its auxiliary operating on AC circuit has a power factor of about 60/100; that is, only about 60/100 of the current through the wiring system does useful work, the rest being returned to the central power source. In other words, the characteristics of a fluorescent lamp with its auxiliary are such

that more current is required in the circuit than is actually consumed, and fully 40/100 of the wiring capacity is needed for this extra current.

Obviously, then, power factor correction is advantageous to the user of Fluorescent lighting. Indeed . . . these advantages are patent:

1. Almost twice as many Fluorescent units can be installed on existing wiring circuits with power factor correction. On circuits already loaded with filament lamps, the level of illumination can be increased as much as 50%. Better lighting without the expense of rewiring!
2. A decrease in voltage loss at the ends of branch circuits results when power factor corrected equipment is used. Another direct saving to the consumer.
3. A reduction in Stroboscopic effect (flicker) where the new Tulamp auxiliary is used is yet another consumer advantage of Fluorescent equipment corrected for power factor.

is built in as an integral part of the Fluorescent unit to correct it for power factor (one, two and three light)

This equipment permits greatest installation since each unit is independent of the individual capacitor use of the individual capacitor advantageous since the correction is made where the low power factor is, by way, wire capacity, power loss, corrected all the way through

the entire wiring system. Thus . . . the user gets better results for less cost.

IVANHOE FLUORESCENT FIXTURES with resultant power factor of 90% or above now enable plant owners, simply and relatively inexpensively, to change over from filament to Fluorescent lamps and get more and better light **WITHOUT RE-WIRING** and without the installation of supplementary power factor correcting equipment.

IVANHOE FLUORESCENT

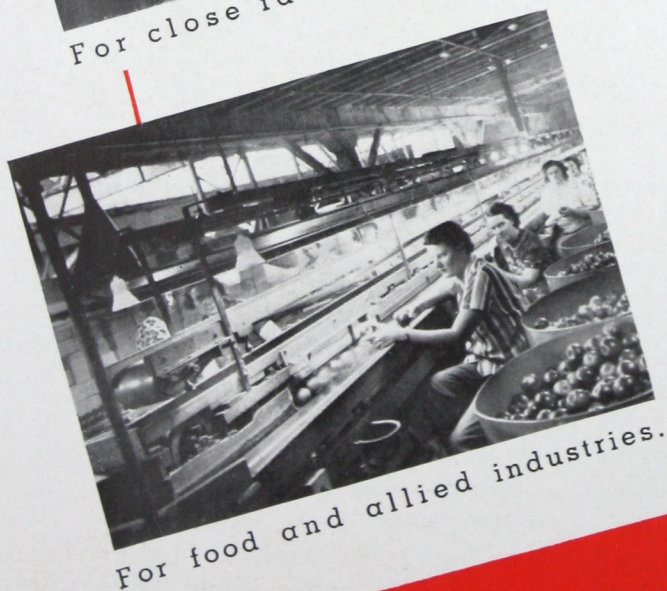
THE FULL BENEFITS



For color matching and inspection.



For close factory inspection.



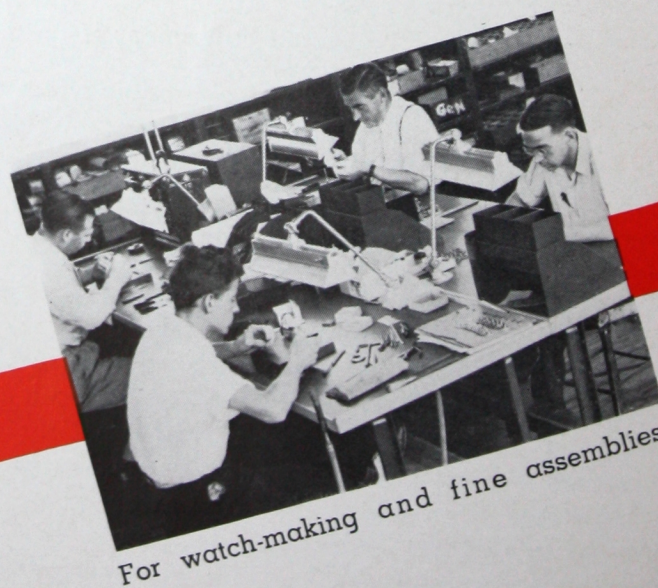
For food and allied industries.

The application of Fluorescent Daylight Mazda light is dominantly in the LOCALIZED lighting field. For very fine assembly and color discrimination and matching, it is without an equal. Its daylight color, its improved diffusion of light, illuminate minute details with startling distinction — and without the slightest glare. For very close work, the virtual absence of radiant heat in Fluorescent Mazda light is a vitally important feature. Experiments prove that intensities of several hundred footcandles of Fluorescent Mazda light can be most advantageously used without the least discomfort in inspection operations and intricate assembly work. Innumerable industrial operations have shown that one or more of the outstanding features of this revolutionary new light — high intensity from low wattage sources — low surface brightness — virtual absence of radiant heat — daylight color — improved even diffusion of light — compactness — are tremendous improvements over all other available forms of localized industrial lighting.

The distinguishing character of localized lighting is, almost invariably that the equipment will be located with strict reference to the particular work to be done. When, however, the working areas are closely spaced, the proper selection of equipment and mounting heights will often provide light suitable for localized general illumination.

Miller-Ivanhoe Fluorescent fixtures were designed with all of the foregoing in mind, by Miller engineers who have behind them the Miller record of nearly 100 years of manufacturing ability and whose work must qualify for the ironclad Miller guarantee of **QUALITY AND COMPLETELY SATISFACTORY SERVICE**. MILLER has always stood for engineered lighting — not merely for the routine making and distribution of good lighting equipment.

There are Miller-Ivanhoe Fluorescent fixtures for use where the op-

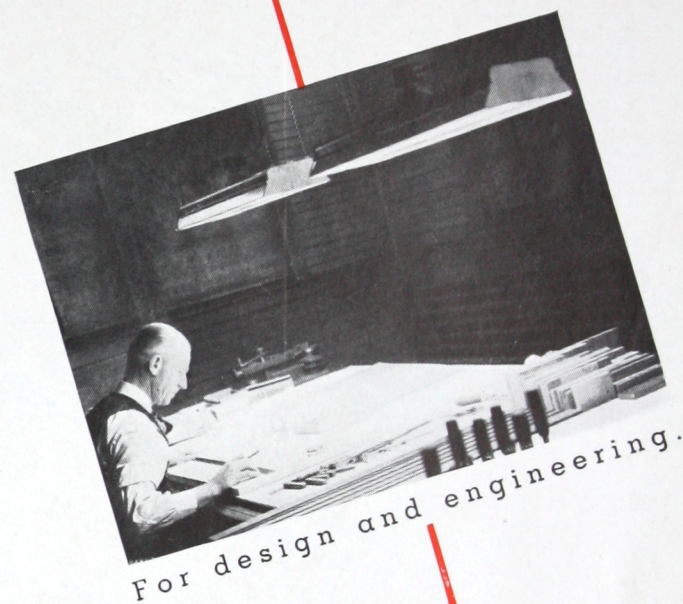


For watch-making and fine assemblies.

FIXTURES BRING TO INDUSTRY OF FLUORESCENT MAZDA LIGHT

erator must be very close to the lamp and to his work. And, to fill the need for higher intensities or greater coverage or higher mounting heights above the working level, there are fixtures with varying degrees of concentration and two or more lamps. Single, double and triple lamp fixtures. In sizes utilizing 15, 20, 30 and 40-watt Fluorescent Mazda lamps and with either a concentrating or medium spread distribution. All of these fixtures are rigid, compact, sturdy assemblies. The auxiliary operating unit is built into the reflector channel, the bottom of which is completely closed and access is easily gained to it by removing the inner reflector. Separately mounted starter switch of renewable type permits easy, quick replacement without dismantling fixture. Junction box at top of fixture simplifies making wiring connections to the line. The inside reflecting surface of all Ivanhoe localized lighting types of Fluorescent reflectors is of polished non-tarnishing ALZAK aluminum to provide the most positive control of light — the general lighting types are of steel, porcelain enameled. In the double and triple Alzak lamp fixtures, each lamp has an individual reflector to insure proper and efficient distribution of light — light from one tube will not pass through an adjacent tube.

On the following pages are shown performance curves and data which will be of practical help in the application of Ivanhoe Fluorescent fixtures to the many purposes for which they are best suited. Note that the light distribution of Alzak units is not symmetrical around the vertical center line of the unit — that is, that a rectangular spread of light is obtained. This fact should be borne in mind when considering the direction of hanging — lengthwise or crosswise. A careful study of the performance data will indicate the proper arrangement.



For design and engineering.



For printing and engraving.



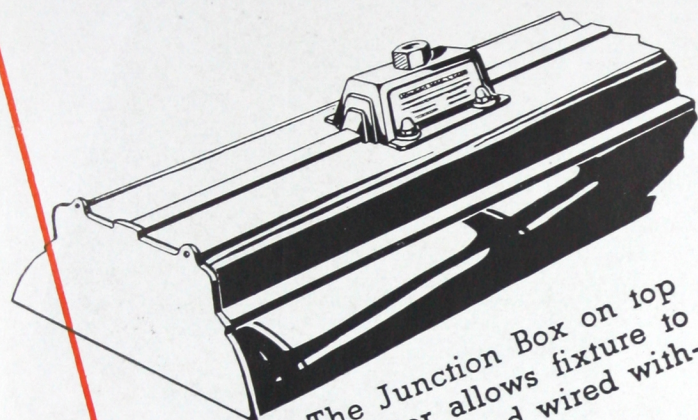
For textile and allied industries.

IVANHOE

IVANHOE FLUORESCENT

TO SIMPLIFY

Junction Box

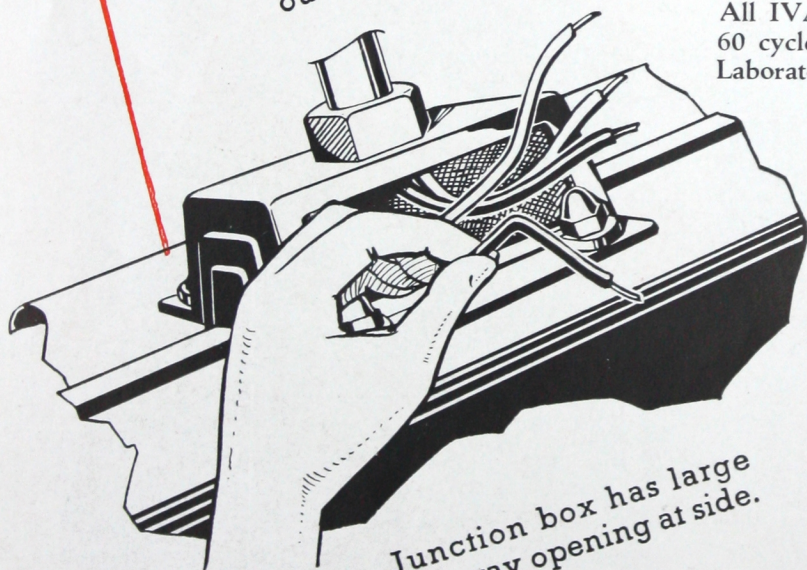


The Junction Box on top of reflector allows fixture to be mounted and wired without unassembling.

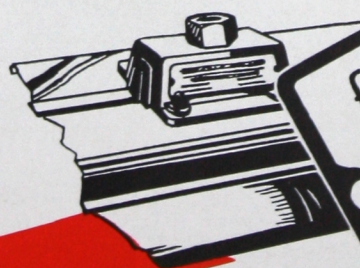
Typical of the thoroughness with which MILLER thought covers every angle of every Miller product, is the junction box which is bolted to the top of each IVANHOE Fluorescent reflector unit. Its purpose is to allow the unit to be mounted and wired without un-assembling. The junction box is large enough for No. 10 and No. 12 service wires; and adequate wire-ways are provided for attaching to the service wires. It has a large wire-way opening at the side, closed by a cover-plate which gives complete electrical rating and identification of the unit. It has a pipe-stop and a heavy set-screw for locking it into the desired alignment.

The junction box effects an important saving of time and labor in installation, particularly in locations close to the wall where the rotating of the reflector and its locking to the conduit would be impracticable. The junction box alone can be easily rotated making it only a matter of seconds to attach it directly to the conduit. Then the reflector can be attached to the junction box (and detached, when necessary) in a jiffy.

All IVANHOE Fluorescent fixtures are standard for operation on 60 cycle AC circuits and carry the approval of the Underwriters' Laboratories. One and two light Alzak aluminum units are equipped



Junction box has large wireway opening at side.



FLUORESCENT LIGHTING FIXTURE
THE MILLER CO., MERIDEN, CONN., U.S.A.

Watts
Amps

Volts
Cycles

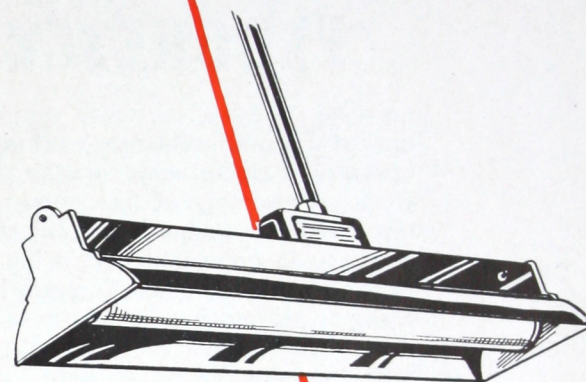
Cover plate which conceals wireway opening gives complete electrical rating and identification.

FIXTURES ARE CONSTRUCTED INSTALLATION AND MAINTENANCE

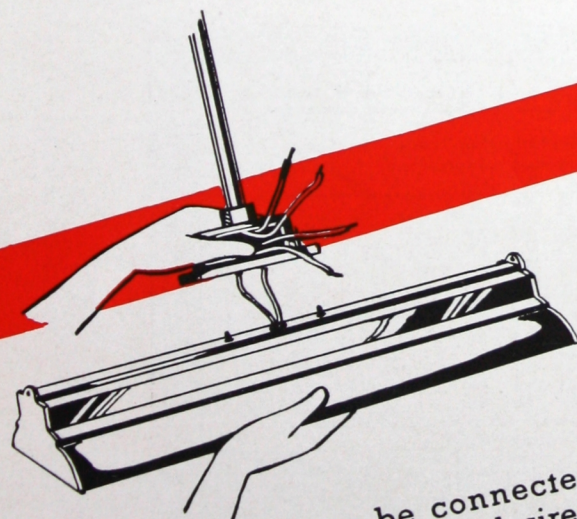
Facilitates Wiring

with convenient toggle switch — all units have standard $\frac{1}{2}$ inch pipe tapping in top for conduit mounting or for attachment of bracket arms, swivels, etc., for a choice of mountings ($\frac{3}{4}$ inch tapping supplied on request at no additional charge) — and eyelets at top of end castings, which make it possible to suspend unit from wire or chain supports.

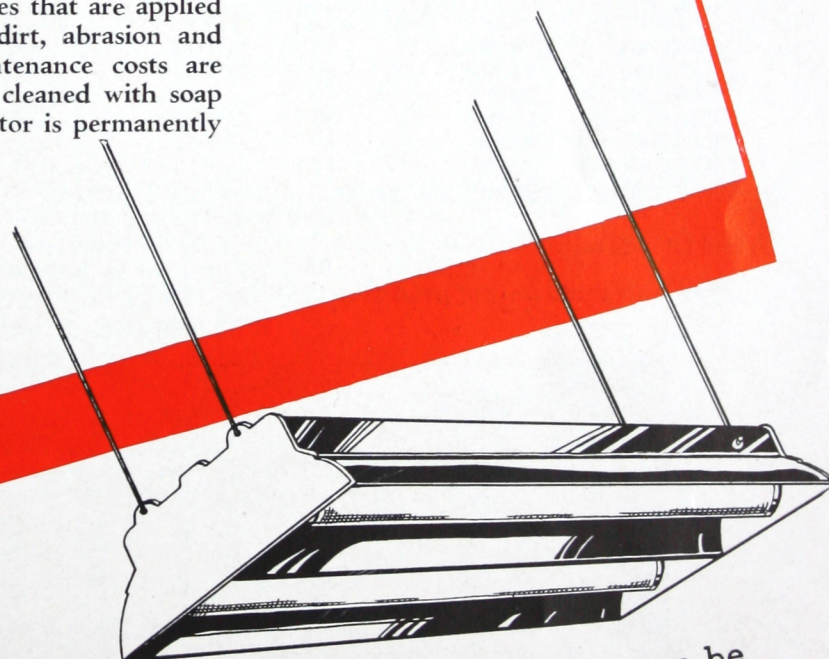
The SUPER-LITE has a swivel at one end of top of reflector and a junction box at the other end. The swivel separates by removing the swivel pin. This permits the loose part of swivel to be fastened to conduit and unit support by pinning together the swivel. While in this position the junction box can be removed and fastened to the second conduit support. By means of the swivel support, the unit is then brought up to the junction box and securely fastened. The Alzak aluminum and porcelain enamel finishes that are applied to Ivanhoe Fluorescent reflectors resist grease, dirt, abrasion and corrosion from salt water and moisture. Maintenance costs are lowered for these non-porous surfaces are easily cleaned with soap and water. With these finishes, the reflection factor is permanently high, and will not wear off, tarnish, or stain.



Ivanhoe reflectors mount readily to conduit.

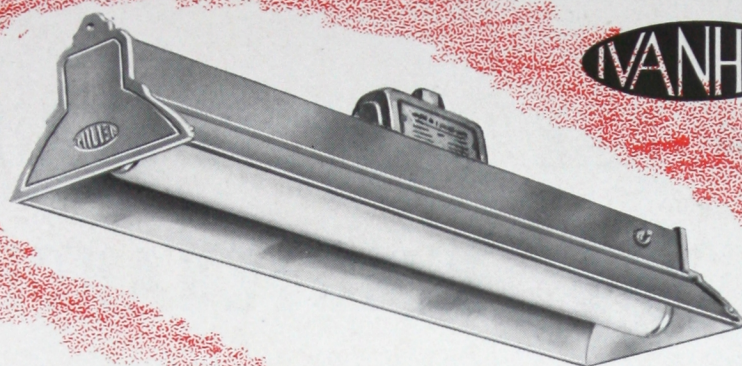


Junction box may be connected directly to conduit where desired, and the reflector may then be attached without rotation—especially desirable in close-to-wall locations.



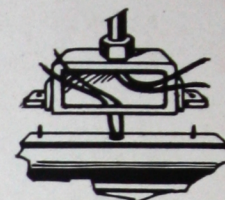
Ivanhoe reflectors may be suspended by chains or wires.

IVANHOE



IVANHOE

FOR LOCALIZED LIGHTING



Junction Box
detaches as shown
—facilitates wiring

FLUORESCENT SINGLE TUBE REFLECTOR

CONCENTRATING TYPE

Specially desirable for spot work application where the operator must be very close to the lamp and to his work — assembly of fine parts, color matching and discrimination and other areas of close work where accuracy is important. May be mounted extremely close to working plane. Can also be mounted in a line along work benches at heights as desired. Inner reflector with surface of polished Alzak aluminum provides positive control of light. At each end of the chromium plated steel outer channel are cast anodized aluminum plates which hold the channel and inner

reflector rigidly, preventing distortion and carry the sockets in a fixed position. Operating auxiliary is housed in channel and access to it is gained by removing inner reflector. Equipped with toggle switch. 1/2 inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Has separately mounted starter switch. Eyelets at top of end castings make it possible to suspend unit from wire or chain supports. Standard for operation on 60 cycle AC circuits.

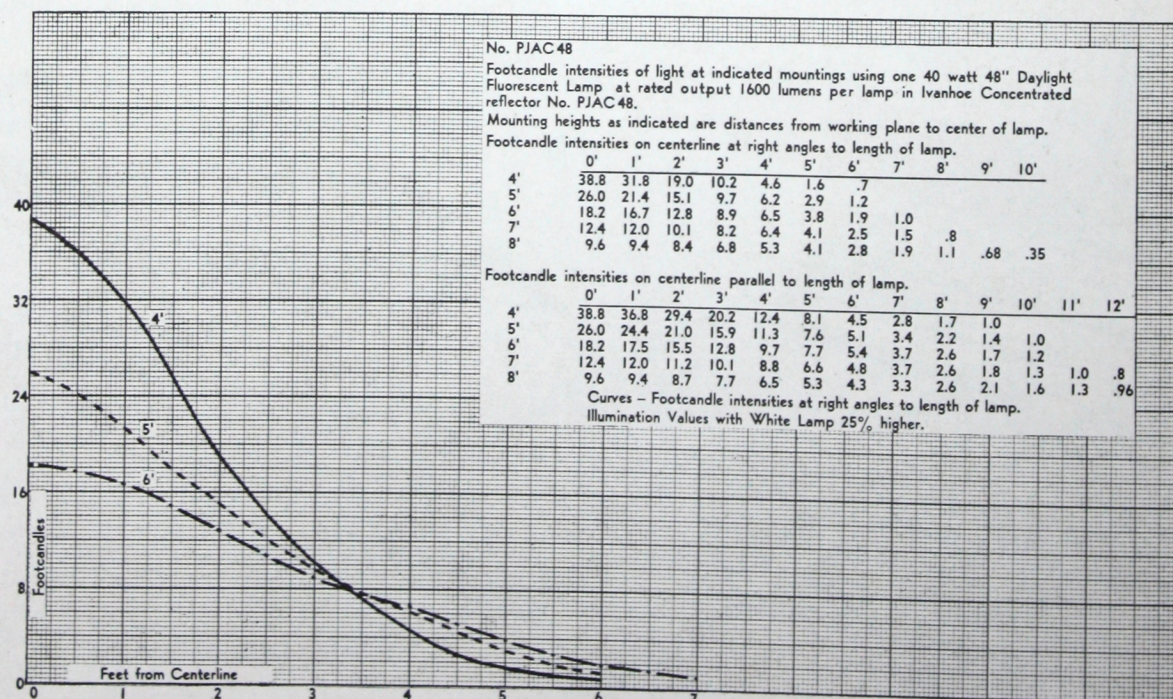
Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	DIMENSIONS—INCHES				STD. PKG. Qty.	Wt. Lbs.
						Length	Width	Depth	Suspension Fitting		
PJAC 18	\$13.25	B	15	110-125	All units power factor corrected to 90% or above	18 3/8	5 3/4	5 1/4	1/2	1	7
PJAC 24	14.25	B	20	110-125		24 3/8	5 3/4	5 1/4	1/2	1	8
PJAC 36-110	20.00	B	30	110-125		36 3/8	5 3/4	5 1/4	1/2	1	10
PJAC 36-220	17.00	C	30	220-250		36 3/8	5 3/4	5 1/4	1/2	1	10
PJAC 48-110	24.00	B	40	110-125		48 3/8	5 3/4	5 1/4	* 1/2	1	18
PJAC 48-220	22.00	C	40	220-250		48 3/8	5 3/4	5 1/4	* 1/2	1	18

PRICES COVER FIXTURES WIRED COMPLETE WITH AUXILIARIES OPERATING AT 90% MINIMUM POWER FACTOR BUT DO NOT INCLUDE LAMPS.

36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAC36-208 etc. Tapped standard for 1/2 inch pipe — 3/4 inch on request at no additional charge.

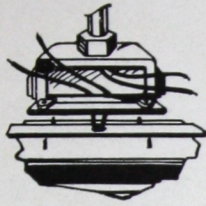
*48 inch units are supplied standard with two 1/2 inch tapped junction boxes spaced on 28 inch centers.

Underwriters' Inspected

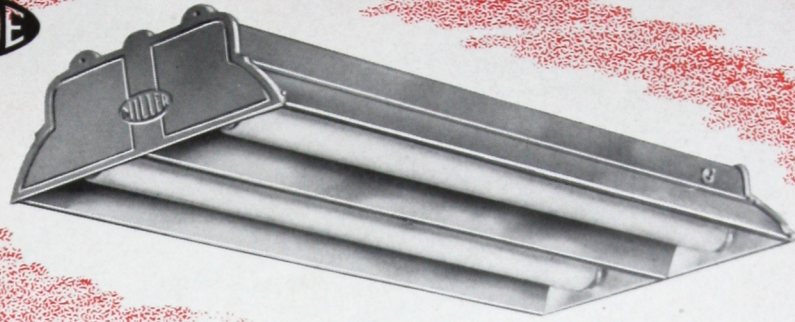


FOR LOCALIZED LIGHTING

IVANHOE



Junction Box
detaches as shown
—facilitates wiring



FLUORESCENT DOUBLE TUBE REFLECTOR

CONCENTRATING TYPE

Like the single tube concentrating reflector, this unit is ideal for spot work application. In that it takes two lamps instead of one, it provides greater quantities of high intensity concentrated light for fine assembly operations and color matching and discrimination. Each lamp has an individual reflector to insure proper distribution of light. Can be mounted extremely close to working plane or in a line along work benches at heights as desired. Inner reflectors with surface of polished Alzak aluminum provide positive control of light. At each end of the chromium plated steel outer channel are cast anodized aluminum plates which hold

the channel and inner reflectors rigidly, preventing distortion and carry the sockets in a fixed position. Tulamp operating auxiliary is housed in channel and access to it is gained by removing inner reflectors. Has separately mounted starter switch. Equipped with toggle switch. 1/2 inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Eyelets at top of end castings make it possible to suspend unit from wire or chain supports. Standard for operation on 60 cycle AC circuits.

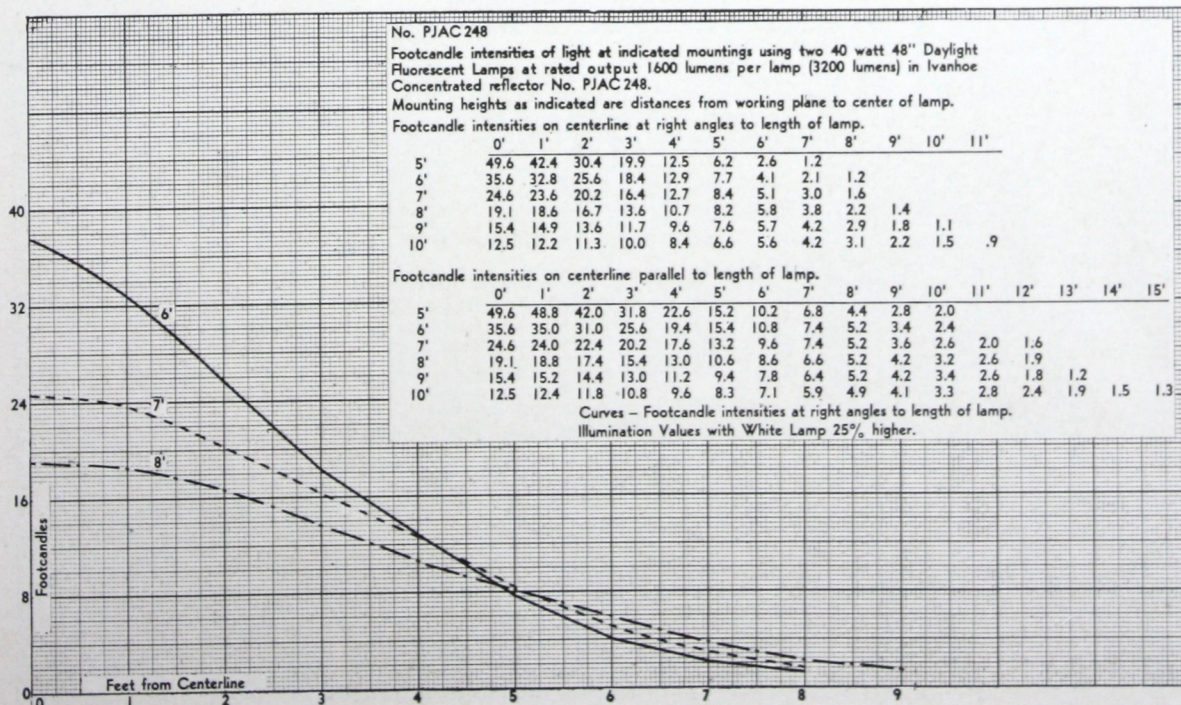
Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	DIMENSIONS—INCHES					STD. PKG. Qty.	Wt. Lbs.
						Length	Width	Depth	Suspension Fitting			
PJAC218	\$24.00	B	2-15	110-125	{ All units power factor corrected to 90% or above }	18 3/8	11 3/4	5 1/4	1/2	1	11 1/2	
PJAC224	26.00	B	2-20	110-125		24 3/8	11 3/4	5 1/4	1/2	1	13	
PJAC236-110	32.25	B	2-30	110-125		36 3/8	11 3/4	5 1/4	1/2	1	19	
PJAC236-220	32.25	C	2-30	220-250		36 3/8	11 3/4	5 1/4	1/2	1	19	
PJAC248-110	41.50	B	2-40	110-125		48 3/8	11 3/4	5 1/4	* 1/2	1	24	
PJAC248-220	41.50	C	2-40	220-250		48 3/8	11 3/4	5 1/4	* 1/2	1	24	

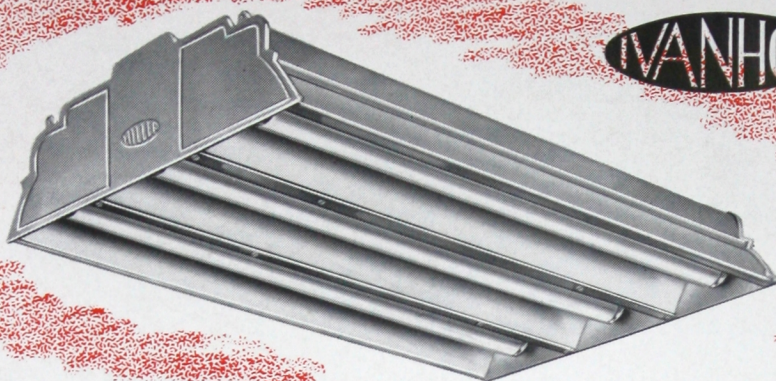
PRICES COVER FIXTURES WIRED COMPLETE WITH TULAMP REACTOR AND STARTING COMPENSATOR OPERATING AT POWER FACTOR OF 90% OR ABOVE BUT DO NOT INCLUDE LAMPS.

36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAC236-208 etc. Tapped standard for 1/2 inch pipe — 3/4 inch on request at no additional charge.

*48 inch units are supplied standard with two 1/2 inch tapped junction boxes spaced on 28 inch centers.

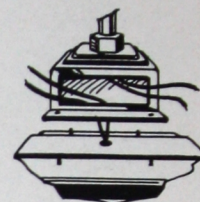
Underwriters' Inspected





IVANHOE

FOR LOCALIZED LIGHTING



Junction Box
detaches as shown
—facilitates wiring

FLUORESCENT TRIPLE TUBE REFLECTOR

CONCENTRATING TYPE

This 3-lamp unit is designed for 3 important uses — (1) to meet the requirements for higher intensities than can be obtained from the use of a 2-lamp unit; (2) to provide the proper intensity of illumination where a higher mounting is required; (3) to provide a greater coverage of light. Each lamp has an individual reflector with inner surface of polished Alzak Aluminum which provides positive control and proper distribution of light. At each end of the chromium-plated steel outer channel are cast anodized aluminum plates which hold the channel and inner reflectors

rigidly, preventing distortion, and insuring the fixed position of sockets. Operating auxiliaries are housed in channel and access to them is gained by removing inner reflectors. $\frac{1}{2}$ inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Has separately mounted starter switch. Eyelets at top of end castings make it possible to suspend unit from wire or chain supports. Standard for operation on 60 cycle AC circuits. Can be supplied on request for 3-phase operation.

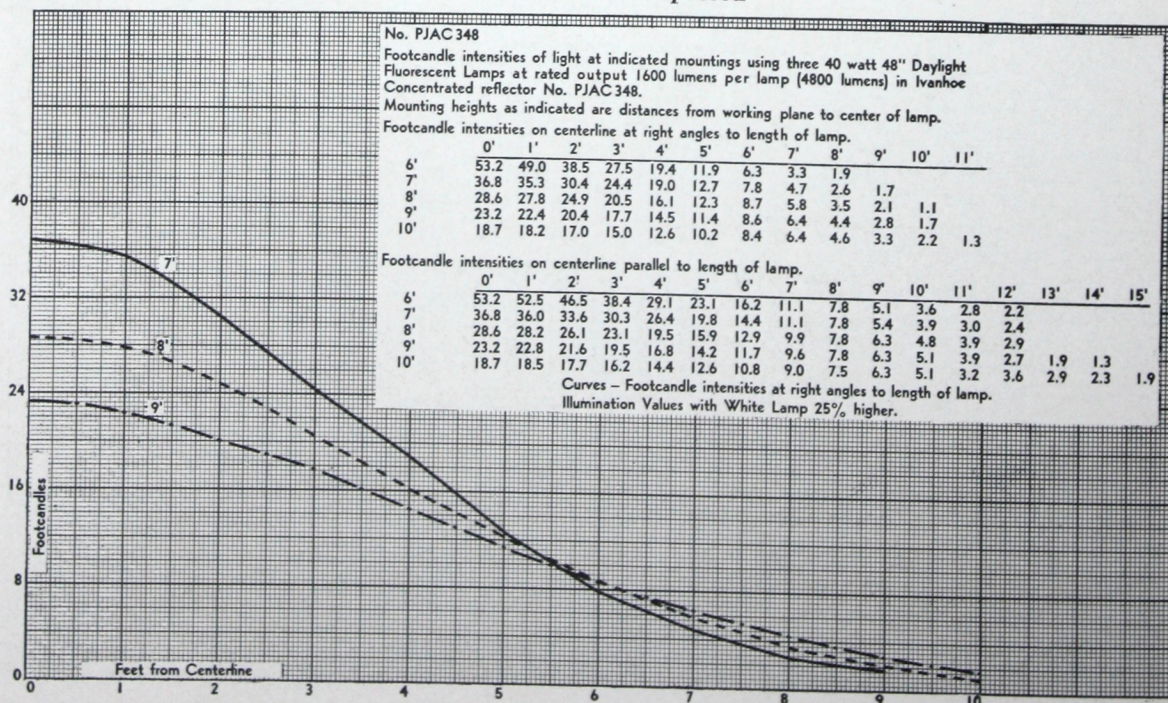
Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	Length	Width	Depth	Suspension Fitting	STD. PKG. Qty.	Wt. Lbs.
PJAC 318	\$38.00	B	3-15	110-125	All units power factor corrected to 90% or above	18 $\frac{3}{8}$	18	6 $\frac{1}{4}$	$\frac{1}{2}$	1	20
PJAC 324	40.00	B	3-20	110-125		24 $\frac{3}{8}$	18	6 $\frac{1}{4}$	$\frac{1}{2}$	1	24
PJAC 336-110	52.00	B	3-30	110-125		36 $\frac{3}{8}$	18	6 $\frac{1}{4}$	$\frac{1}{2}$	1	32
PJAC 336-220	49.25	C	3-30	220-250		36 $\frac{3}{8}$	18	6 $\frac{1}{4}$	$\frac{1}{2}$	1	32
PJAC 348-110	65.00	B	3-40	110-125		48 $\frac{3}{8}$	18	6 $\frac{1}{4}$	* $\frac{1}{2}$	1	46
PJAC 348-220	62.00	C	3-40	220-250		48 $\frac{3}{8}$	18	6 $\frac{1}{4}$	* $\frac{1}{2}$	1	46

PRICES COVER FIXTURES WIRED COMPLETE WITH AUXILIARIES (ONE TULAMP REACTOR AND STARTING COMPENSATOR AND ONE SINGLE REACTOR) OPERATING AT 90% MINIMUM POWER FACTOR BUT DO NOT INCLUDE LAMPS.

36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAC336-208 etc. Tapped standard for $\frac{1}{2}$ inch pipe — $\frac{3}{4}$ inch on request at no additional charge.

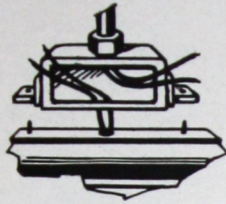
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Underwriters' Inspected

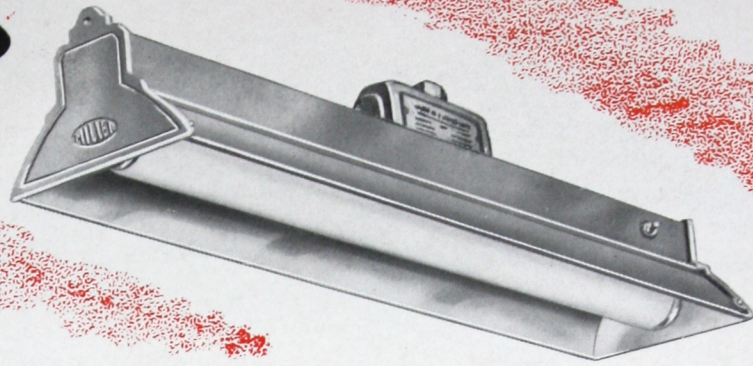


FOR LOCALIZED LIGHTING

IVANHOE



Junction Box
detaches as shown
—facilitates wiring



FLUORESCENT SINGLE TUBE REFLECTOR

FLOOD TYPE

Where a broad coverage of high intensity localized light is desired this unit is ideal. Provides a medium spread distribution of light. Highly efficient for a wide range of assembly and inspection operations. May be used in a line along an entire work bench in areas where operators work on both sides. Inner reflector with surface of polished Alzak aluminum provides positive control of light. At each end of the chromium plated steel outer channel are cast anodized aluminum plates which hold the channel and inner reflector rigidly, preventing distortion and carry the

sockets in a fixed position. Operating auxiliary is housed in channel and access to it is gained by removing inner reflector. Equipped with toggle switch. $\frac{1}{2}$ inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Has separately mounted starter switch. Eyelets at top of end castings make it possible to suspend unit from wire or chain supports. Standard for operation on 60 cycle AC circuits.

Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	DIMENSIONS—INCHES—				Suspension Fitting	STD. PKG. Qty.	Wt. Lbs.
						Length	Width	Depth				
PJAF 18	\$13.25	B	15	110-125	All units power factor corrected to 90% or above	18 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	7
PJAF 24	14.25	B	20	110-125		24 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	8
PJAF 36-110	20.00	B	30	110-125		36 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	10
PJAF 36-220	17.00	C	30	220-250		36 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	10
PJAF 48-110	24.00	B	40	110-125		48 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	18
PJAF 48-220	22.00	C	40	220-250		48 $\frac{3}{8}$	6	5 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	18

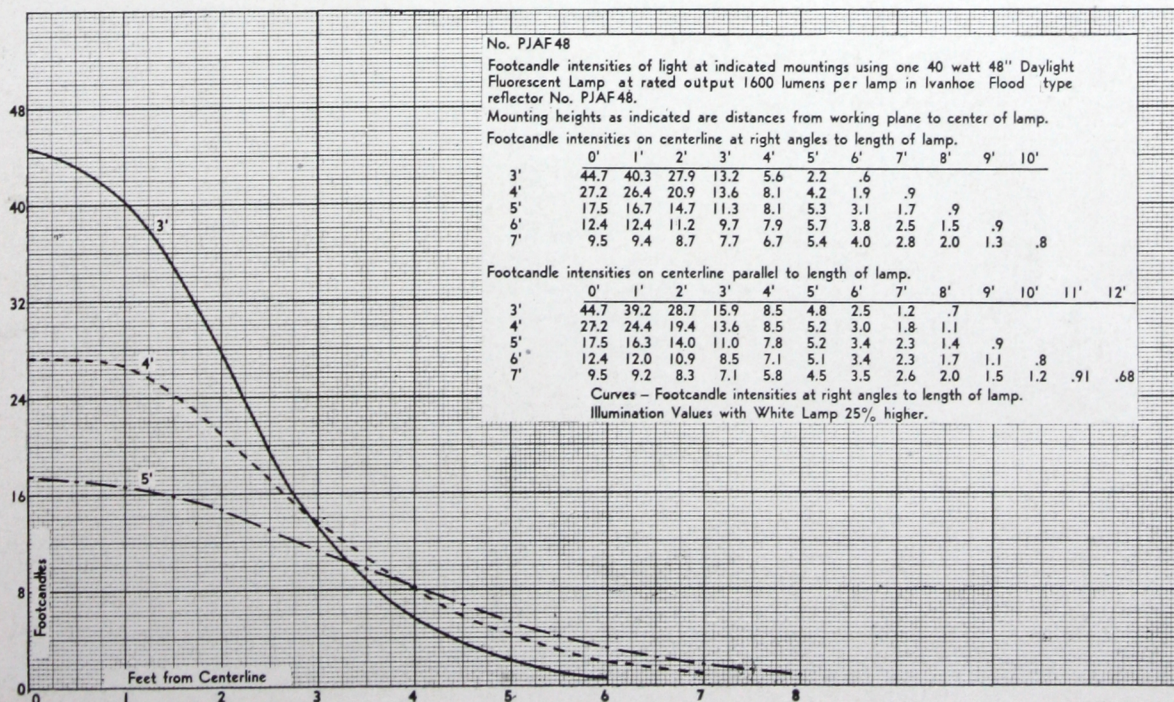
PRICES COVER FIXTURES WIRED COMPLETE WITH AUXILIARIES OPERATING AT 90% MINIMUM POWER FACTOR BUT DO NOT INCLUDE LAMPS.

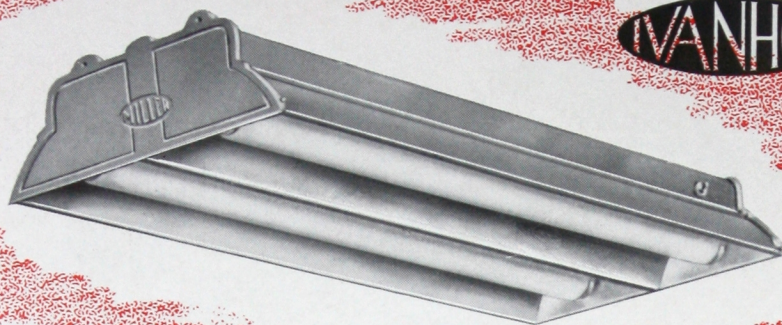
36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAF 36-208 etc.

Tapped standard for $\frac{1}{2}$ inch pipe — $\frac{3}{4}$ inch on request at no additional charge.

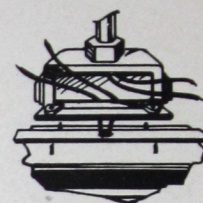
*48 inch units are supplied standard with two $\frac{1}{2}$ inch tapped junction boxes spaced on 28 inch centers.

Underwriters' Inspected





FOR LOCALIZED LIGHTING



Junction Box
detaches as shown
—facilitates wiring

FLUORESCENT DOUBLE TUBE REFLECTOR

FLOOD TYPE

Fills the need for an abundance of high intensity light over a wide working area. At proper mounting heights it even provides light suitable for general illumination. Equipped for use with two lamps, it gives a greater quantity of efficient light ideal for innumerable assembly and inspection operations. Medium spread distribution. Each lamp has an individual reflector to insure proper distribution of light. Inner reflectors with surface of polished Alzak aluminum provide positive control of light. At each end of the chromium plated steel outer channel are cast anodized aluminum plates which hold the channel and inner reflectors rigidly, prevent-

ing distortion and carry the sockets in a fixed position. Tulamp operating auxiliary is housed in channel and access to it is gained by removing inner reflectors. Has separately mounted starter switch. Equipped with toggle switch. 1/2 inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Eyelets at top of end castings make it possible to suspend unit from wire or chain supports. Standard for operation on 60 cycle AC circuits.

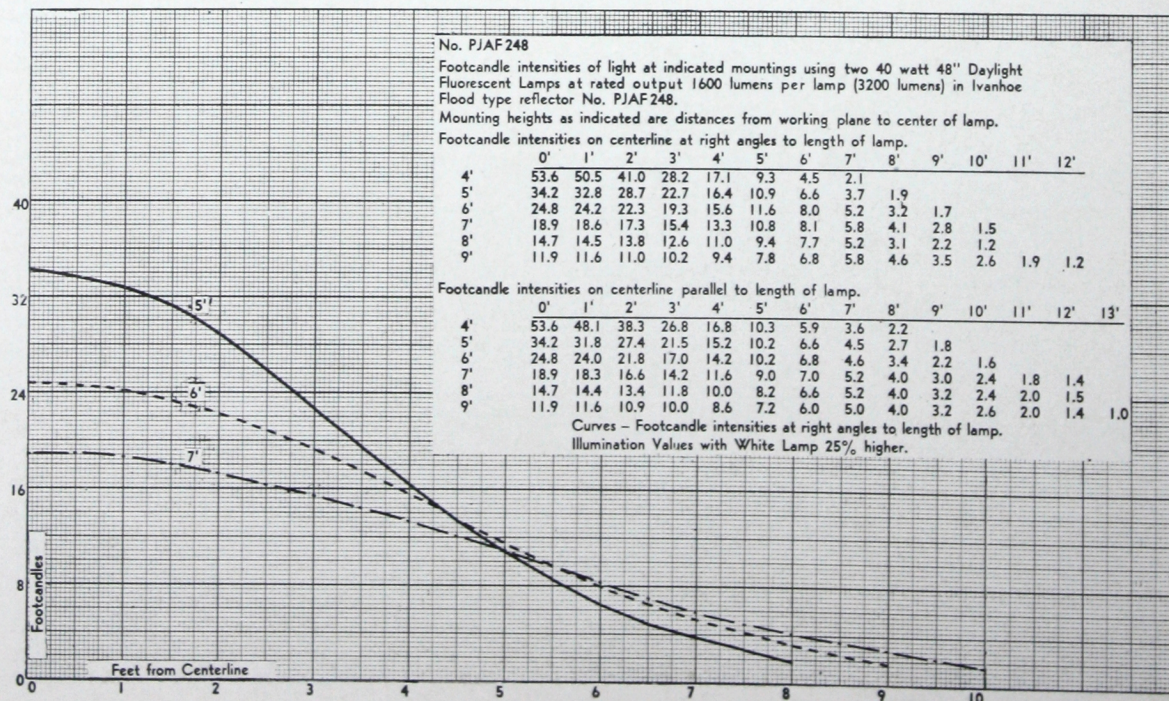
Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	DIMENSIONS—INCHES				Suspension Fitting	STD. PKG. Qty. Wt. Lbs.
						Length	Width	Depth			
PJAF 218	\$24.00	B	2-15	110-125	{ All units power factor corrected to 90% or above }	18 3/8	12	6	1/2	1	11 1/2
PJAF 224	26.00	B	2-20	110-125		24 3/8	12	6	1/2	1	13
PJAF 236-110	32.25	B	2-30	110-125		36 3/8	12	6	1/2	1	19
PJAF 236-220	32.25	C	2-30	220-250		36 3/8	12	6	1/2	1	19
PJAF 248-110	41.50	B	2-40	110-125		48 3/8	12	6	* 1/2	1	24
PJAF 248-220	41.50	C	2-40	220-250		48 3/8	12	6	* 1/2	1	24

PRICES COVER FIXTURES WIRED COMPLETE WITH TULAMP REACTOR AND STARTING COMPENSATOR OPERATING AT POWER FACTOR OF 90% OR ABOVE BUT DO NOT INCLUDE LAMPS.

36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAF236-208 etc. Tapped standard for 1/2 inch pipe — 3/4 inch on request at no additional charge.

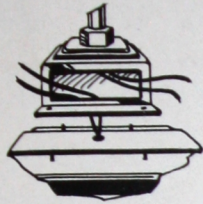
*48 inch units are supplied standard with two 1/2 inch tapped junction boxes spaced on 28 inch centers.

Underwriters' Inspected

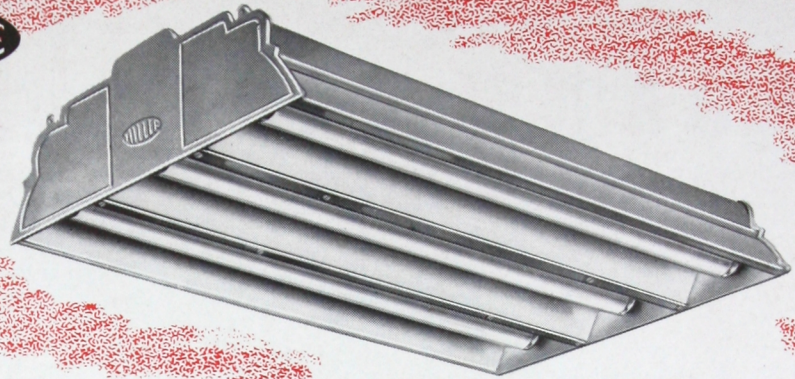


FOR LOCALIZED LIGHTING

IVANHOE



Junction Box
detaches as shown
—facilitates wiring



FLUORESCENT TRIPLE TUBE REFLECTOR

FLOOD TYPE

This unit is designed for use where higher intensities of illumination over a wide working area are required than can be provided by a 2-lamp unit. It also provides the desired intensity where a higher mounting is desirable and provides a greater coverage of light. Each lamp has its individual reflector, with inner surface of polished Alzak Aluminum, insuring positive control and proper distribution of light. At each end of the chromium-plated steel outer channel are cast anodized aluminum plates which hold the channel and

inner reflectors rigidly, preventing distortion, and insuring fixed position of sockets. Operating auxiliaries are housed in channel and access to them is gained by removing inner reflectors. 1/2 inch pipe tapping in top of unit provides for conduit mounting or for the attachment of bracket arms, swivels, etc. Junction box facilitates making wiring connections to the line. Has separately mounted starter switch. Standard for operation on 60 cycle AC circuits. Can be supplied on request for 3 phase operation.

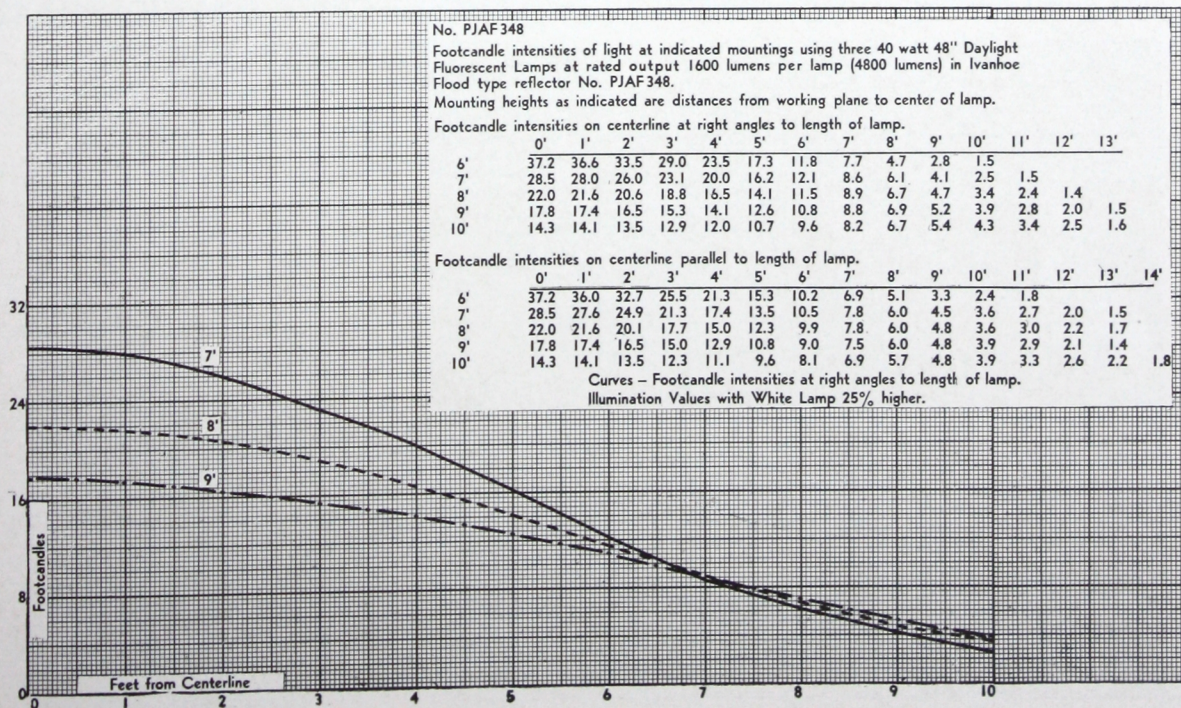
Catalog Number	Retail Price	Delivery Code	Lamp Watts	Line Voltage	Power Factor	—DIMENSIONS—INCHES—					STD. PKG. Qty. Wt. Lbs.
						Length	Width	Depth	Suspension Fitting		
PJAF318	\$38.00	B	3-15	110-125	{ All units power factor corrected to 90% or above }	18 3⁄8	18 1⁄4	6 3⁄4	1⁄2	1	20
PJAF324	40.00	B	3-20	110-125		24 3⁄8	18 1⁄4	6 3⁄4	1⁄2	1	24
PJAF336-110	52.00	B	3-30	110-125		36 3⁄8	18 1⁄4	6 3⁄4	1⁄2	1	32
PJAF336-220	49.25	C	3-30	220-250		36 3⁄8	18 1⁄4	6 3⁄4	1⁄2	1	32
PJAF348-110	65.00	B	3-40	110-125		48 3⁄8	18 1⁄4	6 3⁄4	* 1⁄2	1	46
PJAF348-220	62.00	C	3-40	220-250		48 3⁄8	18 1⁄4	6 3⁄4	* 1⁄2	1	46

PRICES COVER FIXTURES WIRED COMPLETE WITH AUXILIARIES (ONE TULAMP REACTOR AND STARTING COMPENSATOR AND ONE SINGLE REACTOR) OPERATING AT 90% MINIMUM POWER FACTOR BUT DO NOT INCLUDE LAMPS.

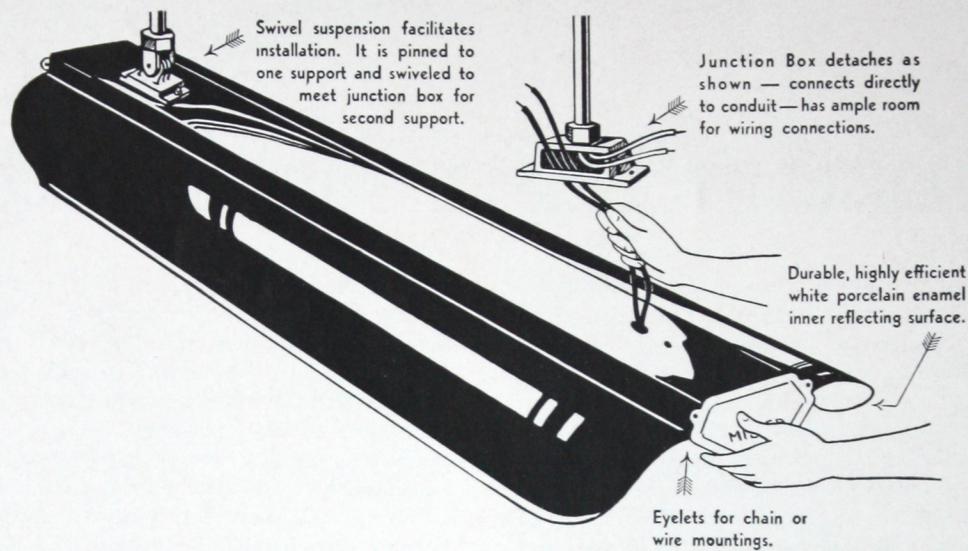
36 and 48 inch units can be supplied on special order for 199-216 volt operation. Specify in ordering as PJAF336-208 etc. Tapped standard for 1/2 inch pipe — 3/4 inch on request at no additional charge.

*48 inch units are supplied standard with two 1/2 inch tapped junction boxes spaced on 28 inch centers.

Underwriters' Inspected



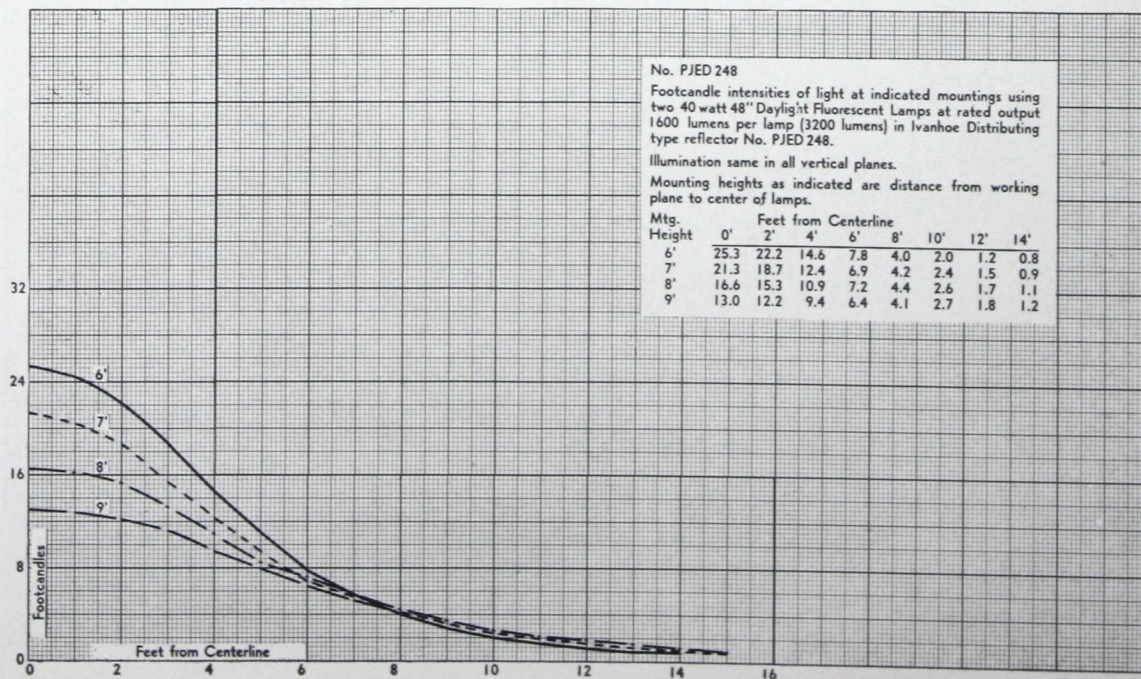
IVANHOE SUPER-LITE



With the Super-Lite the cool, glareless, color-corrected daylight of the Fluorescent Mazda lamp, which has proven so outstandingly efficient and economical for localized lighting of industrial operations, can now be used equally as effective for general overhead illumination of production areas where units can be mounted at heights of nine to twelve feet. It is ideal for the lighting of assembly or finishing rooms — for any industrial operation where quick, easy, accurate

seeing is vital. Installation is facilitated by means of a swivel and a junction box attached to top of reflector. The junction box provides ample room for making wiring connections. Eyelets at top of the anodized cast aluminum end plates make it possible to suspend unit from wire or chain supports in place of conduit. Where ordered for chain pendant mounting, the junction box and swivel are eliminated but a bushed wire entrance is provided.

ILLUMINATION PERFORMANCE WITH FLUORESCENT DAYLIGHT LAMP

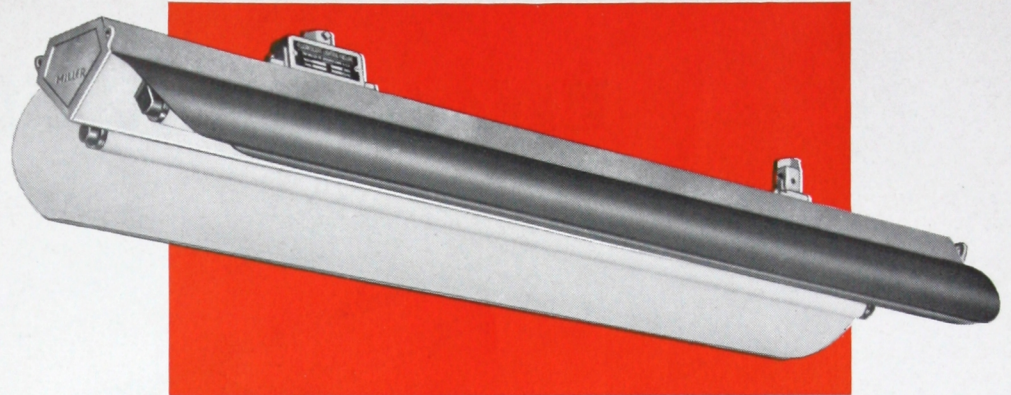


FOR GENERAL ILLUMINATION

CAREFULLY ENGINEERED

The sturdily constructed Super-Lite has been carefully engineered to simplify installation and maintenance. It consists of a durable steel reflector, finished steel gray porcelain enamel outside, and porcelain enameled inside with highly efficient Ivanhoe reflecting white. The steel wiring channel at top of reflector is finished in baked aluminum.

The inner reflector forms a "V" through the center to house and conceal the operating equipment and separate the two 40-watt Fluorescent Daylight lamps for maximum efficiency.



The Super-Lite operating equipment includes the new high power factor Tulamp reactor, starting compensator and removable starting switches. It has an overall power factor of 95% or above, a minimum of stroboscopic effect (flicker) and the correct starting and operating conditions which insure full-rated life and output of the lamps. Operates only on 60 cycle AC circuits.

Catalog Number	Retail Price	Del. Code	Lamp Watts	Line Voltage	Power Factor	DIMENSIONS-INCHES				Suspension	STD. PKG.	Qty.	Wt. Lbs.
						Length	Width	Depth	Fitting				

CONDUIT MOUNTING TYPE

(Complete with Junction Box for Conduit Mounting)

PJED 248-110	\$26.25	B	2-40	110-125	95-100%	52	13 3/4	8 3/8	1/2	1	36
PJED 248-220	26.25	C	2-40	220-250	95-100%	52	13 3/4	8 3/8	1/2	1	36

CHAIN PENDANT MOUNTING TYPE

(Without Junction Box but with a bushed Wire Entrance for Chain Pendant Mounting)

CPED 248-110	24.75	B	2-40	110-125	95-100%	52	13 3/4	8 3/8	.....	1	35
CPED 248-220	24.75	C	2-40	220-250	95-100%	52	13 3/4	8 3/8	.....	1	35

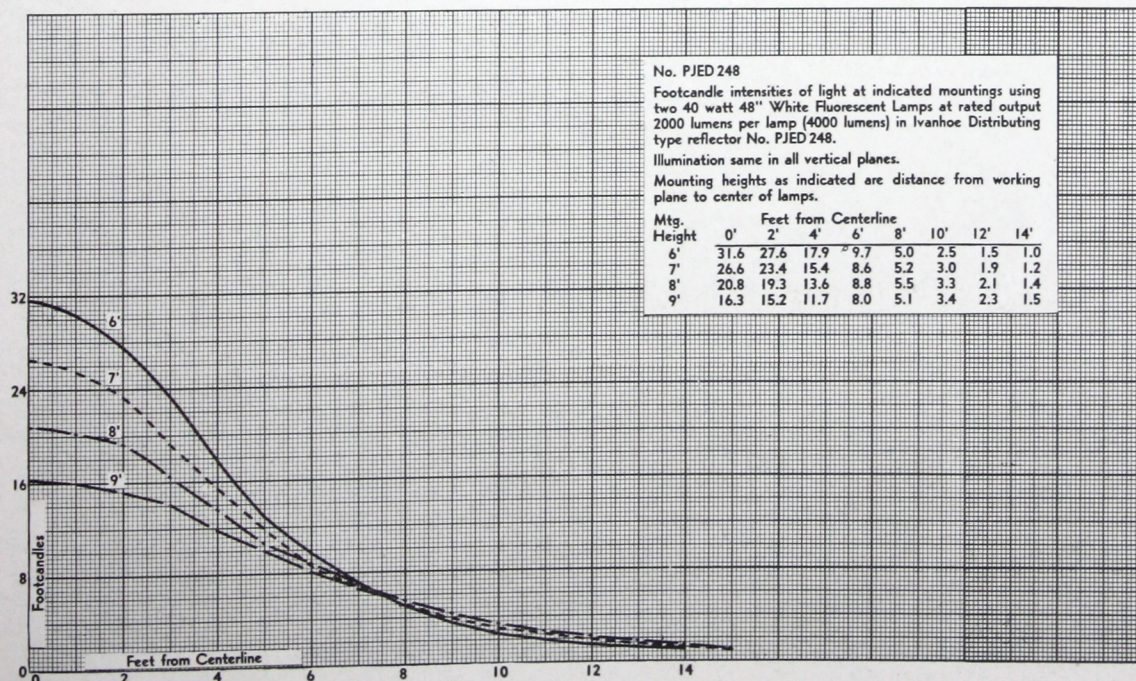
PRICES COVER FIXTURES WIRED COMPLETE WITH TULAMP REACTOR AND STARTING COMPENSATOR OPERATING AT POWER FACTOR OF 95% OR ABOVE BUT DO NOT INCLUDE LAMPS.

For 199-216 volt operation units are supplied on special order. Specify in ordering conduit mounting type as PJED 248-208 or chain pendant mounting type as CPED 248-208 etc.

Conduit mounting type is tapped standard for 1/2 inch pipe — 3/4 inch on request at no additional charge. Distance between support mountings, 28 inches.

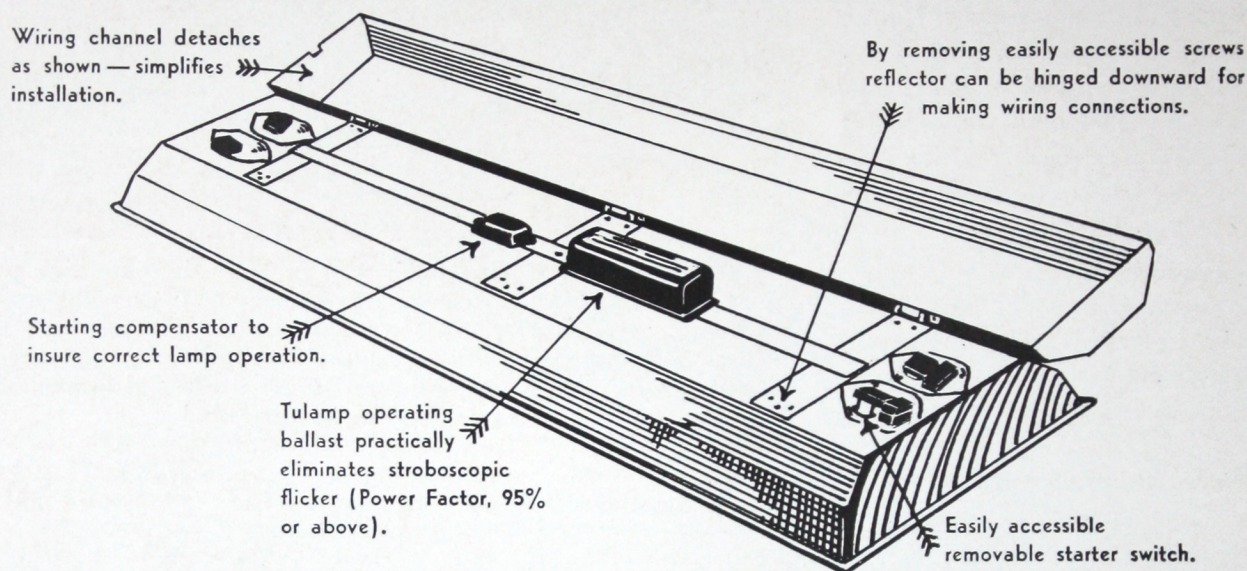
Underwriters' Inspected

ILLUMINATION PERFORMANCE WITH FLUORESCENT WHITE LAMP



IVANHOE MASTER-LITE

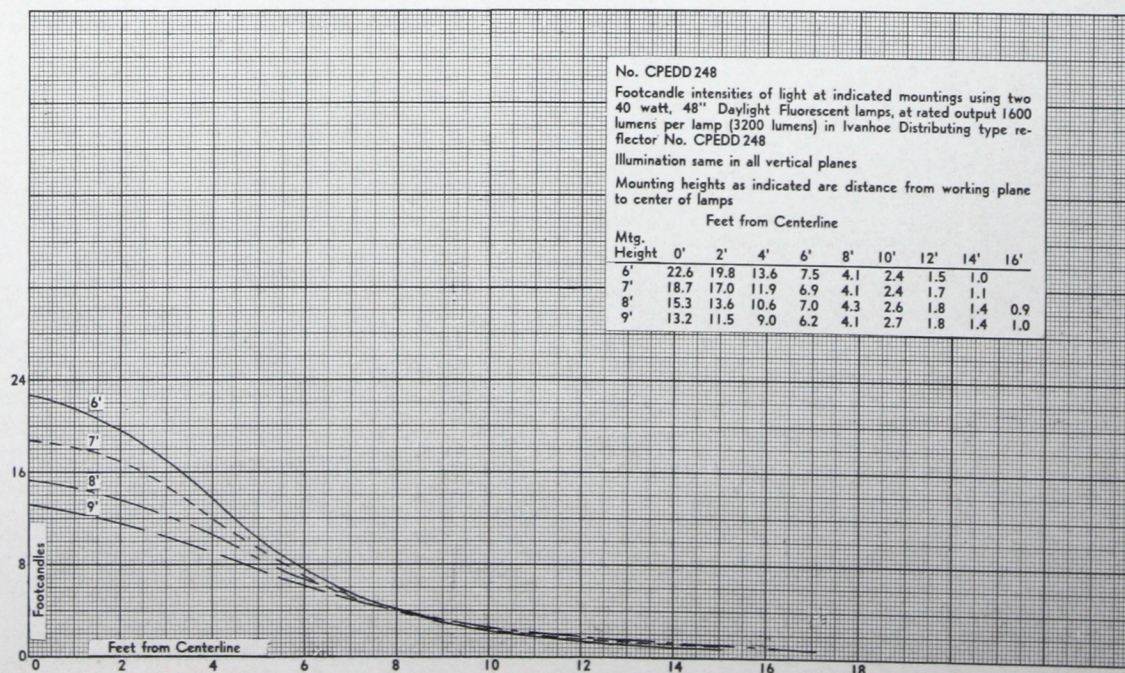
Made to RLM Specifications



The Master-Lite has been carefully engineered in accordance with RLM standard specifications and carries the RLM label. It is designed for the general and localized lighting of industrial areas. Its 72½ degree cut-off insures adequate shielding of the light source. Provides well-diffused illumination for assembly, finishing and similar industrial operations. The separable

wiring channel simplifies installation. By removing three thumb screws, the channel can be detached from reflector or the reflector suspended from the hooks of the channel while wiring connections are being made. The unit is standard for chain pendant mounting but has two ½ inch knockouts for use if conduit mounting is desired.

ILLUMINATION PERFORMANCE WITH FLUORESCENT DAYLIGHT LAMP



FOR GENERAL AND LOCALIZED ILLUMINATION

CAREFULLY ENGINEERED

Master-Lite is sturdily constructed and has been carefully engineered to insure easy installation, cleaning and maintenance. Its durable steel reflector is finished steel gray porcelain enamel outside and porcelain enameled inside with highly efficient Ivanhoe reflecting white. The steel wiring channel at top of reflector is finished in baked aluminum.



The operating equipment of Master-Lite includes the new high power factor Tulamp reactor, starting compensator and removable starting switches. With this equipment Master-Lite has a resultant power factor of 95% or above, a minimum of stroboscopic effect (flicker) and the correct starting and operating conditions which insure full-rated life and output of the lamps. Operates only on 60 cycle AC circuits.

FOR CONDUIT OR CHAIN PENDANT MOUNTING

Catalog Number	Retail Price	Del. Code	Lamp Watts	Line Voltage	Power Factor	—DIMENSIONS—INCHES—				Suspension STD. PKG.	Qty.	Wt. Lbs.
						Length	Width	Depth	Fitting			
CPEDD 248-110	\$29.00	B	2-40	110-125	95-100%	52 1/2	13 1/8	7 1/4	*	1	30	
CPEDD 248-220	29.00	C	2-40	220-250	95-100%	52 1/2	13 1/8	7 1/4	*	1	30	

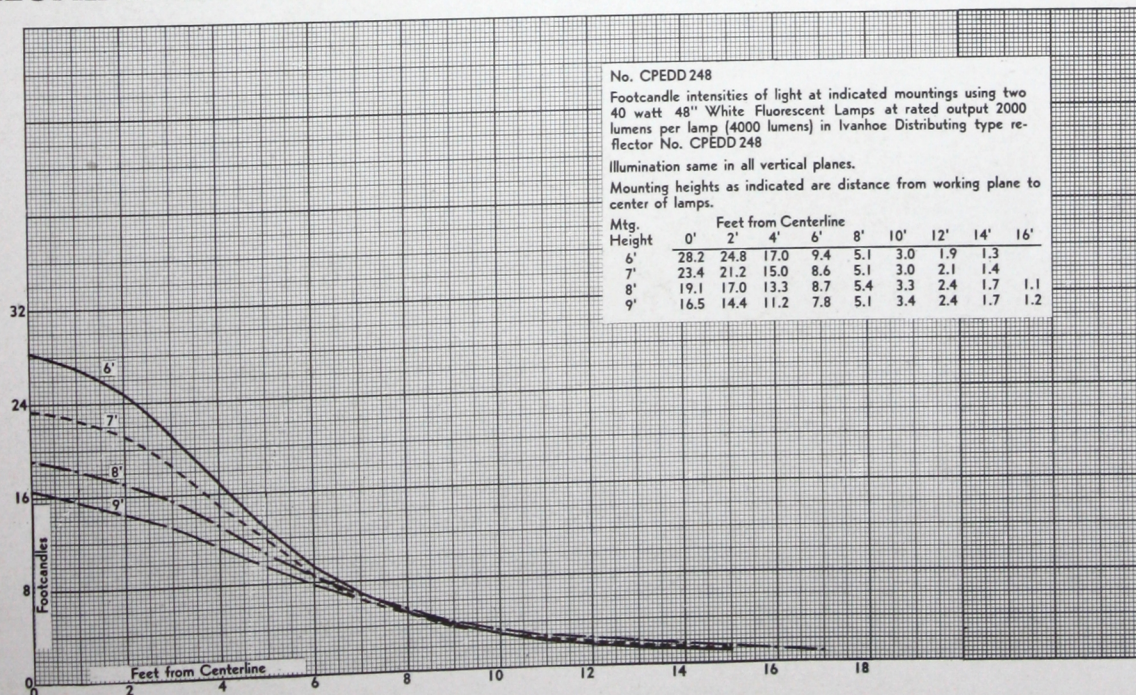
PRICES COVER FIXTURES WIRED COMPLETE WITH TULAMP REACTOR AND STARTING COMPENSATOR OPERATING AT POWER FACTOR OF 95% OR ABOVE BUT DO NOT INCLUDE LAMPS.

For 199-216 volt operation units are supplied on special order. Specify in ordering as CPEDD 248-208, etc.

*This unit is standard for chain pendant mounting but has two 1/2 inch knockouts for use if conduit mounting is desired. Distance between conduit knockouts is 28 inches.

Underwriters' Inspected

ILLUMINATION PERFORMANCE WITH FLUORESCENT WHITE LAMP



ACCESSORY EQUIPMENT FOR USE WITH

IVANHOE FLUORESCENT FIXTURES

Catalog Number	Retail Price	Delivery Code	Description	DIMENSION-INCHES			STD. PKG.	
				Diam.	Depth	Fitter	Qty.	Wt. Lbs.
AC 941	\$.30	B	½ Tapped	4 ¼	1 ¼	Outlet Box	10	7
AC 1041	.65	B	½ Tapped	4 ¼	1 ½	Outlet Box	10	7
ACH 1314	1.75	B	½ Threaded	5 ¼	20	¾ Stud	10	20
ACH 1362	1.50	B	Swivel			½ male x ½ male	10	6
ACH 1363	1.50	B	Swivel			½ male x ¾ female	10	6
ACH 1371	5.75	B	Bench Bracket	4 ½	19 ¾	½ male	5	15
ACH 1390	1.80	B	½ Threaded	5 ¼	20	¾ Stud	10	20

PENDANT HANGER

No. ACH 1314 has swivel stem. May be attached to Ivanhoe Fluorescent fixtures to provide a suitable type of pendant hanger. Has ¾" adjustable hickey, threaded lock ring to permit canopy to be lowered, ⅝" brass tubing, 18 inches long which terminates with a ½" male threaded bushing for attaching reflectors. Finished in Nuvon Chrome.

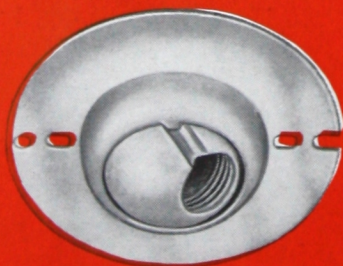
No. ACH 1390 same as above but with rigid cadmium plated stem and Nuvon finished slip canopy.

OUTLET BOX COVER ALIGNER

AC 941 consists of a cast iron ball, suspended between two plates. The ball moves freely and will allow the fixture to hang plumb when boxes are at an angle up to 45°. The use of this device also improves the efficiency of the installation and protects the reflector or fittings from jars or bumps from poles, ladders, or similar objects. Designed for use on standard 3¼ or 4 inch boxes. The ball is tapped for ½ inch pipe and has two slots to permit it to be held with a wrench while conduit or pipe is being screwed in place. Standard finish: galvanized iron.



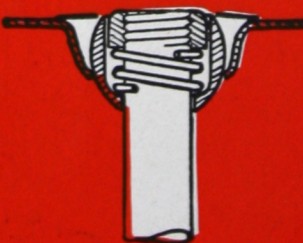
ACH 1314 (Swivel stem)
ACH 1390 (Rigid stem)



AC 941



ACH 1371



AC 1041

SHOCK ABSORBING OUTLET BOX COVER ALIGNER

The AC 1041 aligner is identical with the AC 941 with the exception that it is of the shock absorbing type. A heavy spring in this device floats the reflector or fitting protecting the equipment from shocks or jars.

SINGLE-PLANE SWIVEL

By the use of this single-plane swivel, it is possible to tilt Fluorescent fixtures to angles as desired. It may be attached to ½" pipe stems or to ¾" pipe brackets over work bench. Comes in two types—ACH 1362 has ½" x ½" male fittings and ACH 1363 has ½" male x ¾" female fittings.

BENCH BRACKET

No. ACH 1371 provides a convenient means of mounting Ivanhoe Fluorescent fixtures to work benches. Arm is adjustable at base and at top swivel which has ½ inch male fitting. Extreme height 19¾ inches. Base 4½ inches in diameter. Comes complete with wood screws for mounting. Finished in Nuvon.



ACH 1362
ACH 1363

MILLER-IVANHOE FLUORESCENT FIXTURES REPRESENT THE BEST IN VALUE AND ENGINEERING

Underwriters'

UNDERWRITERS
LABORATORIES, INC.
INSPECTED WIRED ELECTRIC FIXTURE
THE MILLER COMPANY
MERIDEN CONNECTICUT

20,645

Inspected

Through nearly one hundred years of manufacturing experience, The Miller Company has endeavored always to incorporate in its products all of the latest developments known to the lighting field. With its complete manufacturing facilities — electrical testing laboratories, foundries, rolling mills, glass factories, electro-

plating and porcelain-enameling plants, Alzak aluminum-processing, metal-stamping, spinning and fabricating plants — every step in the manufacture of lighting equipment is under its own supervision, which is your assurance of superior products.

FACTORIES OF THE MILLER COMPANY, MERIDEN, CONN.

